

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/002496

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16D23/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 331 362 A (KNOWLES ARTHUR) 6 September 1989 (1989-09-06) cited in the application the whole document	1
A	DE 196 19 981 A (MAYR CHRISTIAN GMBH & CO KG) 20 November 1997 (1997-11-20) figures 1,5	1
A	US 2 399 097 A (CARNAGUS HAROLD E) 23 April 1946 (1946-04-23) figure 1	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

20 September 2004

Date of mailing of the international search report

01/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Foulger, M

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/002496

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0331362	A	06-09-1989	AT 79452 T	15-08-1992
			DE 68902405 D1	17-09-1992
			DE 68902405 T2	28-01-1993
			EP 0331362 A1	06-09-1989
			ES 2034613 T3	01-04-1993
			GB 2216203 A ,B	04-10-1989
			US 4934498 A	19-06-1990
DE 19619981	A	20-11-1997	DE 19619981 A1	20-11-1997
US 2399097	A	23-04-1946	NONE	